U. S. DEPARTMENT OF COMMERCE

HARRY L. HOPKINS, Secretary

NATIONAL BUREAU OF STANDARDS

LYMAN J. BRIGGS. Director

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GROUND AND POLISHED LENSES FOR SUN GLASSES

COMMERCIAL STANDARD CS78-39

Effective Date for New Production From October 10, 1939



A RECORDED STANDARD OF THE INDUSTRY

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON: 1940

PROMULGATION

of

COMMERCIAL STANDARD CS78-39

for

GROUND AND POLISHED LENSES FOR SUN GLASSES

On June 16, 1939, at the instance of the Sun Glass Institute, Inc., a general conference of representative manufacturers, distributors, and users of ground and polished lenses for sun glasses adopted a recommended commercial standard for this commodity. Those concerned have since accepted and approved for promulgation by the United States Department of Commerce, through the National Bureau of Standards, the standard as shown herein.

The standard is effective for new production from October 10, 1939.

Promulgation recommended.

I. J. Fairchild, Chief, Division of Trade Standards.

Promulgated.

Lyman J. Briggs, Director, National Bureau of Standards.

Promulgation approved.

Harry L. Hopkins, Secretary of Commerce.

GROUND-AND-POLISHED LENSES FOR SUN GLASSES

COMMERCIAL STANDARD CS78-39

PURPOSE

1. The purpose of this commercial standard is to provide a nationally recognized specification for ground-and-polished sun-glass lenses to serve as an assurance and protection to purchasers, to promote fair competition between manufacturers, and to serve as a basis for certification of quality.

SCOPE

2. This commercial standard covers the accuracy of grinding and polishing as well as freedom from defects that impair serviceability of ground-and-polished sun-glass lenses. The lenses covered by this commercial standard are eye-protective (not eye-corrective) devices. They are not a substitute for prescription lenses but may be worn therewith.

TYPES

3. This specification covers ground-and-polished sun-glass lenses of curved and flat types made entirely of glass.

GENERAL REQUIREMENTS

4. The lenses shall be made from glass of a quality suitable for optical products, that is, glass free from striae, bubbles, seeds, or other defects visible to the unaided eye. Both optical surfaces of the lenses shall be ground, well polished, and free from visible surface defects, such as scratches, waves, and grayness.

5. Surfaces of lenses shall be essentially parallel or of compensated

curvatures; prismatic effect shall not exceed 1/8 prism diopter.

6. Lenses shall be essentially without focal power. There shall be not more than 1/16 diopter of power in any meridian and the difference in power between any two meridians shall not exceed 1/16 diopter.

7. The lenses shall transmit not more than 67 percent of the total visible light rays from a high-powered, gas-filled tungsten lamp operated at its rated voltage.

TESTING EQUIPMENT

8. Lenses shall be tested for prismatic effect and focal power by the following method or any other recognized optical method which provides measurements to the degree of accuracy required by these specifications:

The lens shall be tested for clearness of image of an illuminated target viewed through the lens when placed in front of a suitably calibrated telescope equipped with cross hairs and having magnifying power not less than 12 and a free aperture not less than 1 inch. The

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target shall be located at a convenient distance (not less than 30 (thirty) feet), and shall consist of a cross centered within a circle. This design shall be formed of sharply delineated black lines upon a white card. The radius of the circle shall subtend an angle of 1/800th radian (1/8 prism diopter) when viewed from the position of the lens under test.

9. The visible radiation shall be determined photometrically by an observer having normal color vision, as determined by the Holmgren test for color vision, or with a physical photometer consisting of a thermophile (or other radiometer) and a luminosity solution having a spectral-transmission curve which coincides closely with the visibility curve of the average eve.

CERTIFICATION OF QUALITY

10. It is recommended that the following form of certification be used on labels, tags, invoices, etc.:

The _____ Company certifies these sunglass lenses to comply with all requirements of Commercial Standard CS78–39 for Ground-and-Polished Lenses for Sun Glasses, as issued by the National Bureau of Standards.

11. An abbreviated form of certification is incorporated in the label shown as figure 1.



Figure 1.—Enlarged reproduction (\times 2) of label adopted by a national association of manufacturers to certify conformance with the commercial standard.

Colors, red and gold. On the reverse side is shown the name or trade-mark of the manufacturer or a serial number identifying the manufacturer in the records of the association.

EFFECTIVE DATE

The standard is effective for new production from October 10, 1939.

STANDING COMMITTEE

The following individuals comprise the membership of the standing committee, which is to review, prior to circulation for acceptance, revisions proposed to keep the standard abreast of progress. Each association nominated its own representatives. Comment concerning the standard, and suggestions for revision, may be addressed to any

member of the committee or to the Division of Trade Standards, National Bureau of Standards, which acts as secretary for the committee.

Manufacturers:

C. R. Essick (chairman), Pennsylvania Optical Co., Reading, Pa. D. P. Bernheim, American Optical Co., Southbridge, Mass. E. L. Hettinger, Willson Products, Inc., Reading, Pa.

Distributors:

Limited Price Variety Stores Association, Inc.:

Representative to be appointed.

Optical Wholesalers' National Association, Inc.:

Invited to name representative.

National Wholesale Druggists' Association: E. L. Newcomb, 330 W. Forty-second Street, New York, N. Y.

National Conservation Bureau:

EDWARD R. GRANNISS, 60 John Street, New York, N. Y.
Philip Drinker, School of Public Health, Harvard University, 55 Shattuck Street, Boston, Mass.

M. G. Lloyd, National Bureau of Standards, Washington, D. C.

F. W. REYNOLDS (secretary), National Bureau of Standards, Washington, D. C.

HISTORY OF PROJECT

On May 16, 1939, the Sun Glass Institute, Inc., requested the establishment of a commercial standard for ground-and-polished lenses for sun glasses and submitted a proposed commercial standard that had been developed by a committee of that Institute. Accordingly, invitations to a general conference scheduled for June 16, 1939, at Atlantic City, N. J., were mailed to all known producer, distributor,

and user organizations interested in sun-glass lenses.

This general conference reviewed the proposed commercial standard and after voting certain changes, recommended its circulation to the entire industry for approval. Minutes of the conference and the recommended commercial standard were accordingly mailed to all known interested organizations on July 10, 1939, for written acceptance. Following satisfactory acceptance, and in the absence of active opposition, the establishment of the standard was announced September 27, 1939.



ACCEPTANCE OF COMMERCIAL STANDARD

This	sheet properly fill	ed in, signed,	and returned wi	ll provide	for	the	recording
of your	organization as a	n acceptor o	f this commercial	standard.			

Date_____ Division of Trade Standards, National Bureau of Standards. Washington, D. C. Gentlemen: Having considered the statements on the reverse side of this sheet, we accept the Commercial Standard CS78-39 as our standard of practice in the Production 1 Distribution 1 Use 1 of ground-and-polished lenses for sun glasses. We will assist in securing its general recognition and use, and will cooperate with the standing committee to effect revisions of the standard when necessary. Signature of individual officer_____ (In ink) (Kindly typewrite or print the following lines) Name and title of above officer_____ Company_____ (Fill in exactly as it should be listed) Street address_____

City and State_____

¹ Please designate which group you represent by drawing lines through the other two. Please file separate acceptances for all subsidiary companies and affiliates which should be listed separately as acceptors. In the case of related interests, trade papers, colleges, etc., desiring to record their general approval, the words "in principle" should be added after the signature.

TO THE ACCEPTOR

The following statements answer the usual questions arising in

connection with the acceptance and its significance:

1. Enforcement.—Commercial standards are commodity specifications voluntarily established by mutual consent of those concerned. They present a common basis of understanding between the producer, distributor, and consumer and should not be confused with any plan of governmental regulation or control. The United States Department of Commerce has no regulatory power in the enforcement of their provisions, but since they represent the will of the interested groups as a whole, their provisions through usage soon become established as trade customs, and are made effective through incorporation into sales contracts by means of labels, invoices, and the like.

2. The acceptor's responsibility.—The purpose of commercial standards is to establish for specific commodities, nationally recognized grades or consumer criteria and the benefits therefrom will be measurable in direct proportion to their general recognition and actual use. Instances will occur when it may be necessary to deviate from the standard and the signing of an acceptance does not preclude such departures; however, such signature indicates an intention to follow the commercial standard where practicable, in the production, distri-

bution, or consumption of the article in question.

3. The Department's responsibility.—The major function performed by the Department of Commerce in the voluntary establishment of commercial standards on a Nation-wide basis is fourfold: First, to act as an unbiased coordinator to bring all interested parties together for the mutually satisfactory adjustment of trade standards; second, to supply such assistance and advice as past experience with similar programs may suggest; third, to canvass and record the extent of acceptance and adherence to the standard on the part of producers, distributors, and users; and fourth, after acceptance, to publish and promulgate the standard for the information and guidance of buyers and sellers of the commodity.

4. Announcement and promulgation.—When the standard has been endorsed by a satisfactory majority of production or consumption in the absence of active, valid opposition, the success of the project is announced. If, however, in the opinion of the standing committee or the Department of Commerce, the support of any standard is inadequate, the right is reserved to withhold promulgation and

publication.

ACCEPTORS

The organizations and individuals listed below have accepted this specification as their standard of practice in the production, distribution, and use of ground-and-polished lenses for sun glasses. Such endorsement does not signify that they may not find it necessary to deviate from the standard, nor that producers so listed guarantee all of their products in this field to conform with the requirements of this standard. Therefore specific evidence of quality certification should be obtained where required.

ASSOCIATIONS

Air Associates, Inc., Garden City, N. Y. Bradenton Woman's Club, Bradenton, Fla. (In principle.)

Industrial Safety Equipment Association, New York, N. Y.

Limited Price Variety Stores Association, New York, N. Y.

National Retail Dry Goods Association, Merchandising Division, New York, N. Y. (In principle.) Sun Glass Institute, Inc., New York, N. Y.

FIRMS

American Optical Co., Southbridge, Mass.

American Spectacle Co., Inc., New York, N. Y.

Bachmann Bros., Inc., Philadelphia, Pa. Bamberger & Co., L., Newark, N. J. Bartels Optical Co., Chicago, Ill. Benson Optical Co., N. P., Minne-

apolis, Minn.

Biegel Optical Co., Denver, Colo. Bullard Co., E. D., San Francisco, Calif. Cannon Optical Co., Philadelphia, Pa. Carter-Lockard Co., Los Angeles, Calif. Central Co-operative Wholesale, Su-

perior, Wis. Chrysler Corporation, Detroit, Mich.

(In principle.)

Cleveland Optical Co., Inc., Cleveland, Ohio.

Columbia Protektosite Co., Inc., Carlstadt, N. J.
Drinker, Philip, Boston, Mass.
Foster Grant Co., Inc., Leominster,

Hirsch & Kaye, San Francisco, Calif. Hoffman Co., C. A., Minneapolis, Minn.

Houze Convex Glass Co., L. J., Point

Marion, Pa. Corporation, Provi-Inlaid Optical

dence, R. I. Isbell Optical Co., The, Clinton, Iowa.

(In principle.)
Keystone View Co., Meadville, Pa.
Lampert Co., Irving, Brooklyn, N. Y.
Limeburner Co., J. E., Philadelphia, Pa.

Lloyd Co., Andrew J., Boston, Mass. Marine Optical Manufacturing C Manufacturing Co., Boston, Mass.

May Manufacturing Co., Inc., New

York, N. Y. McIntire, Magee & Brown Co., Philadelphia, Pa.

Meyrowitz, Inc., E. B., New York, N. Y.

Milwaukee Optical Manufacturing Co.,

The, Milwaukee, Wis. Mohr & Sons, R., San Francisco, Calif. New Orleans, Inc., Better Business Bureau of, New Orleans, La. (In

principle.) Optical Products Corporation, New York, N. Y.

Pennsylvania Optical Co., Reading, Pa. Popular Aviation Magazine, Chicago, Ill. (In principle.)

Quinton-Duffens Optical Co., Topeka,

Kans.

Ridgway's, Evansville, Ind. Roslinoid Manufacturing Co.,

East Boston, Mass. Rothschild & Son, Inc., Marcus, Philadelphia, Pa.

Sacramento, Better Business Bureau of, Sacramento, Calif. (In principle.) Safety First Supply Co., Pittsburgh, Pa. Schmiedecke, Chas. L., Maspeth, New York, N. Y.

Sears, Roebuck & Co., Chicago, Ill.
Southern Optical Co., Louisville, Ky.
Spill Manufacturing Co., Inc., East
Rutherford, N. J.
Steel City Optical Corporation, Pittsburgh, Pa.
United Lens Co., Inc., The, South
bridge Mass

bridge, Mass. Willson Products, Inc., Reading, Pa. Winchester Optical Co., Horseheads,

Zeiss, Inc., Carl, New York, N. Y. Zylo Ware Corporation, Long Island City, N. Y.

U. S. GOVERNMENT

Agriculture, Department of, Washington, D. C. Veterans' Administration, Washington, D. C.

COMMERCIAL STANDARDS

CS No.	Item	CS N	o. Item
busine	cial standards and their value to ss (second edition).		Apple wraps. Douglas fir plywood (domestic grades) (third
	thermometers (second edition).	10 20	edition). Hosiery lengths and sizes (second edition).
2-30. Mopstic 3-38. Stoddard	d solvent (second edition).		Marking of gold-filled and rolled-gold-plate
4-29. Staple p	orcelain (all-clay) plumbing fixtures.	10.04	articles other than watch cases.
5-29. Steel pip	t-iron pipe nipples (second edition).	48-34.	Domestic burners for Pennsylvania anthracite (underfeed type).
7-29 Standard	weight malleable iron or steel screwed	49-34.	Chip board, laminated chip board, and mis-
unions	anks (second edition).	50_34	cellaneous boards for bookbinding purposes. Binders board for bookbinding and other
	' template hardware (second edition).		purposes.
10-29. Brass pi	pe nipples.	51-35.	Marking articles made of silver in combina-
	of mercerized cotton yarns. (fifth edition).	52-35.	tion with gold. Mohair pile fabrics (100-percent mohair plain
13-39. Dress pa	atterns (second edition).		velvet, 100-percent mohair plain frieze, and
	itton-on waists, shirts, junior and polo (made from woven fabrics) (second	59_95	50-percent mohair plain frieze). Colors and finishes for cast stone.
edition			. Mattresses for hospitals.
15-29. Men's p			Mattresses for institutions.
16-29. Wali paj 17-32. Diamon	d core drill fittings (second edition).		Oak flooring. Book cloths, buckrams, and impregnated
18-29. Hickory	golf shafts.		fabrics for bookbinding purposes except
19-32. Foundry	y patterns of wood (second edition). vitreous china plumbing fixtures	58_36	library bindings. Woven elastic fabrics for use in overalls (over
(secon	d edition).	00-00.	all elastic webbing),
21-39. Intercha	ingeable ground-glass joints, stop- and stoppers (fourth edition).	59-39.	Woven dress fabrics—testing and reporting (second edition).
22-30. Builders	s' hardware (nontemplate).	60-36.	Hardwood dimension lumber.
23-30. Feldspar			Wood-slat venetian blinds.
25-30. Standard 25-30. Special s	dscrew threads. screw threads.		Colors for kitchen accessories. Colors for bathroom accessories.
26-30. Aromati	c red cedar closet lining.	64-37.	. Walnut veneers.
	(second edition). abric tents, tarpaulins, and covers.	65-38.	. Wool and part-wool fabrics Marking of articles made wholly or in part of
29-31. Staple se	eats for water-closet bowls.	00-30.	platinum.
	or Sanitary ware. ningles (fourth edition).		Marking articles made of karat gold.
	cloth for rubber and pyroxylin coat-	00-30.	Liquid hypochlorite disinfectant, deodorant, and germicide.
ing.	1		Pine oil disinfectant.
	derwear (exclusive of rayon). se, and strap leather.		Coal tar disinfectant (emulsifying type). Cresylic disinfectants.
35-31. Plywood	d (hardwood and eastern red cedar).	72-38.	Household insecticide (liquid spray type).
	nier wire cloth (second edition). ne plates and screws.	73-38.	Old growth Douglas fir standard stock doors. Solid hardwood wall paneling.
38-32. Hospita	l rubber sheeting.	75-39.	. Automatic mechanical draft oil burners.
39-37. Wool an	d part wool blankets (second edition).		Hardwood interior trim and molding.
41-32. Surgeon	s' rubber gloves. s' latex gloves.	78-39.	Sanitary cast iron enameled ware. Ground-and-polished lenses for sun glasses.
42-35. Fiber in	sulating board (second edition).	79-39.	Blown, drawn, and dropped lenses for sun
43-32. Grading	of sulphonated oils.	1	glasses.

Notice.—Those interested in commercial standards with a view toward accepting them as a basis of everyday practice may secure copies of the above standards, while the supply lasts, by addressing the Division of Trade Standards, National Bureau of Standards, Washington, D. C.



